



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: H. Adachi et al. : Art Unit:
 Serial No.: 09/867,910 : Examiner:
 Filed: May 30, 2001 :
 FOR: TRANSMITTING CIRCUIT :
 APPARATUS

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 L.M. Lachar
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SUPPLEMENTAL PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
 Washington, D.C. 20231

S I R :

Prior to examination, please amend the above-identified application
 as follows:

CLAIMS:

Please add the following new claims:

18. (Newly Added) A method of transmitting a signal comprising
 the steps of:

(a) receiving baseband I and Q multi-valued digital signals, each
 signal represented by n-bits;

(b) converting each of the signals received in step (a) into digital I
 and Q signals, respectively, represented by less than n-bits;

(c) modulating the converted digital I and Q signals of step (b) using
 a quadrature modulator; and

(d) transmitting the modulated signals of step (c).

19. (Newly Added) The method of claim 18 in which step (b)
 includes representing each of the digital I and Q signals by two-bits.